

5745605-PK0

05744998

INSTALLATION INSTRUCTIONS FOR 1995 NA MAIN HVAC REPLACEMENT KIT

The parts listed here are contained in the Main HVAC Base Kit P/N 05744965 for 1994-1997 vehicles.

ITEM	DESCRIPTION	PART NUMBER	QTY
1.	Unit, Main HVAC	06009308	1
2.	Bracket, HVAC Mount Upper	06009440 B9	1
3.	Bracket, HVAC Mount Lower	06009384 B9	1
4.	Resistor, Blower	06009438	1
5.	Bracket, Blower Resistor	06009439 B9	1
6.	Harness, Blower Resistor	06009304	1
7.	Harness, Main HVAC Unit	06009303	1
8.	Saddle, Intake Elbow	06008702 B9	1
9.	Seal, Rubber, Rain Cap	06009745	1
10.	Plate, Cover	05744966	1
11.	Drier	05743473	1
12.	Harness, Vacuum, Control Head	05744792	1
13.	Panel, Closeout, Right Side	06009520	1
14.	Bracket, Closeout Panel, Upper	06009524 B9	1
15.	Bracket, Closeout Panel, Lower	06009525 B9	1
16.	Shield, Stone	06009455 B9	1
17.	Guard, Edge, Stone Shield	06009588	1
18.	Gasket	05745007	1
19.	Screw, Self Tap	06000114	5
20.	Screw, #10-16 x 3/8"	MS 00051861 44	2
21.	Strap, Tie	MS 00003367 7-0	10
22.	Insert, Nut 1/4-20	05937584	1
23.	Screw, Trim	06000243	6
24.	Rivet	12339355 1	24
25.	Plug, Hole	12340533 2	5
26.	Insert, Nut 10-24	05939334	1
27.	Clamp, Worm Gear	11608950 1	1
28.	Decal	05745004	1



29.	Bolt, 1/4-20 x 1 1/4"	05744981	1
30.	Nut, Keps, 1/4"	05743303	2
31.	Bolt, Manifold M8-1.25 x 35mm	05744986	1
32.	O-Ring, #6	06006173	3
33.	O-Ring, #10	06006175	1
34.	Tape, Open Foam 3/4" x 3/4"	05744988	1.5'
35.	Sealer, Neutral Cure	05598179	1
36.	Washer, Flat	05743539	1
37.	Templates	05744995	1

The parts listed here are contained in the Main HVAC Accessory Kit P/N 05744945 for 1995 NA vehicles.

ITEM	DESCRIPTION	PART NUMBER	QTY
1.	Installation Instructions	05744998	1
2.	Water Valve, Vacuum	05744951	1
3.	Duct, Heat	05744963	1
4.	Adapter, Heat Duct	05744990	1
5.	Hose, Duct, 2"	05743542	3'
6.	Cover, Defrost Duct	05744949	1
7.	Pump, Vacuum	05744980	1
8.	Bracket, Control Head	05744982	1
9.	Bezel, Control Head	05744947	1
10.	Harness, Vacuum, Water Valve	05744997	1
11.	Harness, Jumper	05744948	1
12.	Block, Manifold	05744999	1
13.	Tube, Heater	05744808	1
14.	Bracket, Water Valve	06007368 B9	1
15.	Nut, Keps, 10-32	05744983	4
16.	Screw, #8 x 1/2"	05743185	2
17.	Hose, Vacuum, 5/32"	05744994	32"
18.	Tee, Brass, 1/4" x 1/4" x 1/4"	12339973 1	1
19.	Bolt, 10-24 x 3/4"	MS 00051849 76P2	3
20.	Nut, Lock 10-24	G 00190254	3

One of the following control heads is needed when installing the HVAC replacement kit. The control head is shipped separate from the base and accessory kits.

ITEM	DESCRIPTION	PART NUMBER	QTY
1.	Control Head Without Defog	06009143	1
2.	Control Head With Defog	06009144	1

PROCEDURE

1. Discharge the A/C system using the approved reclaiming process.
2. Disconnect the battery and drain the engine coolant.
3. Jack up the front of the vehicle. Set the vehicle securely on jack stands and remove the right front tire.
4. Remove the rain cap and adapter.
5. Remove the stone shield, air cleaner assembly, and air intake elbow.
6. Remove the surge tank.

- NOTE -

Plug or cap all openings to prevent foreign matter from contaminating the system.

7. Disconnect the high and low pressure hoses from the side of the HVAC unit.
8. Remove the heater hoses from the heater core inlet and outlet.
9. Remove the heater hoses from the water valve, remove the water valve and discard.
10. Remove the crash pad and the center console.
11. Disconnect the A/C harness completely from all attached harnesses. Remove and discard the high blower harness and disconnect the rear defog connection if equipped.
12. Remove the passenger seat, two screws securing the right side of the auxiliary unit cover and the right front inner and outer kick panels.
13. Disconnect all the duct hoses connected to the main HVAC unit.
14. Remove the engine cover and drill out the rivets securing the right side center console mount bracket. Remove the console bracket and set aside for later installation.
15. Remove the 3 mount nuts and washers in the engine compartment securing the left side of the HVAC unit.
16. Remove the 3 mount bolts inside the air intake.
17. Remove the HVAC unit from vehicle.

18. Position template "A" on the upper inside of the footwell and align with three 1/4" bolts and nuts in the original HVAC mount holes (See Figure 1). Mark the square for the air intake hole, centerpunch two points for the intake elbow retainer saddle and four points for the new upper HVAC mount bracket.

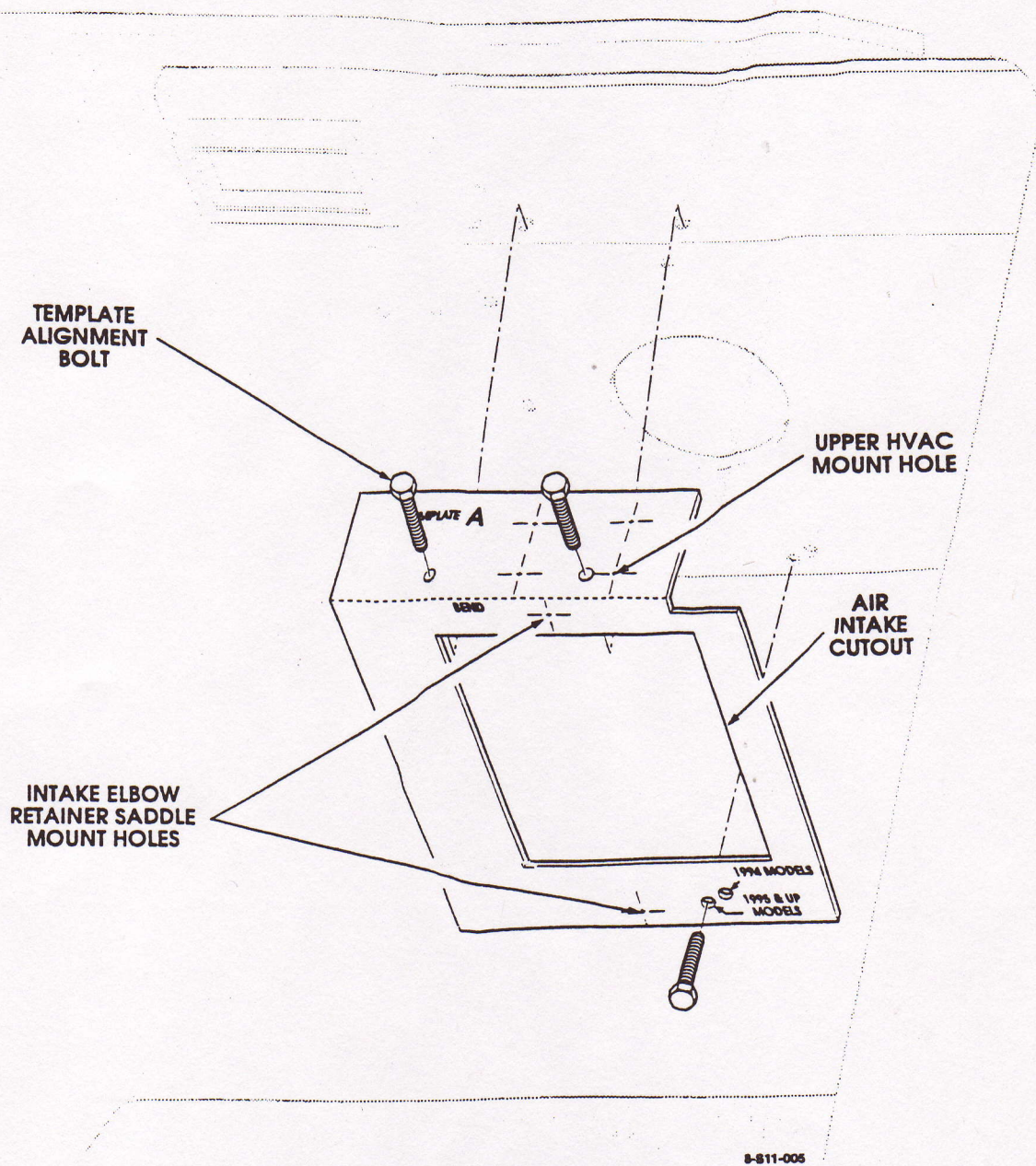


Figure 1: Location of Template "A".

19. Drill four 1/8" corner holes in the marked air intake square (prevents stress cracking from the corner of the hole) and cut the square out of the body.
20. Drill the remaining centerpunched points with a 3/16" drill bit.

Note: Use neutral cure sealer when installing rivets and nut inserts in any area where water intrusion could occur.

21. Using template "B", locate the mounting hole for the left side main HVAC mount. Align the bottom of the template flush with the seam in the body (See Figure 2). Drill the hole using a $25/64$ " drill bit and install a $1/4$ -20 nut insert.

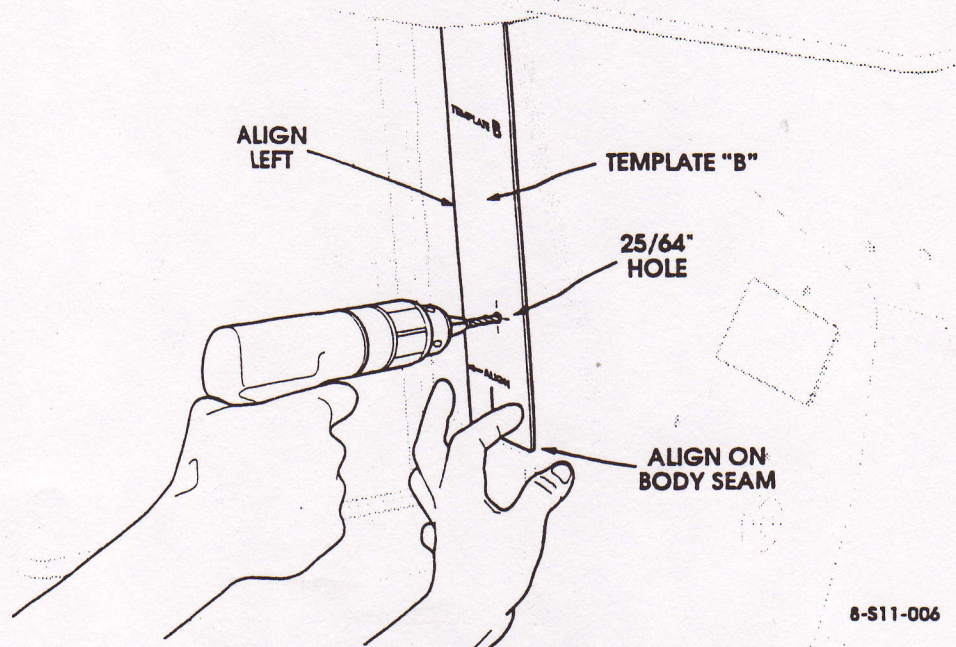


Figure 2: Left Side Mount Bracket Template "B".

22. If your vehicle does not have a water valve mount bracket on the left side of the footwell, position the water valve mount bracket template "C" inside the footwell. Align against the roof of the footwell and with the vertical body seam at the corner of the engine opening (See Figure 3). Mark and drill two $3/16$ " water valve bracket mount holes.

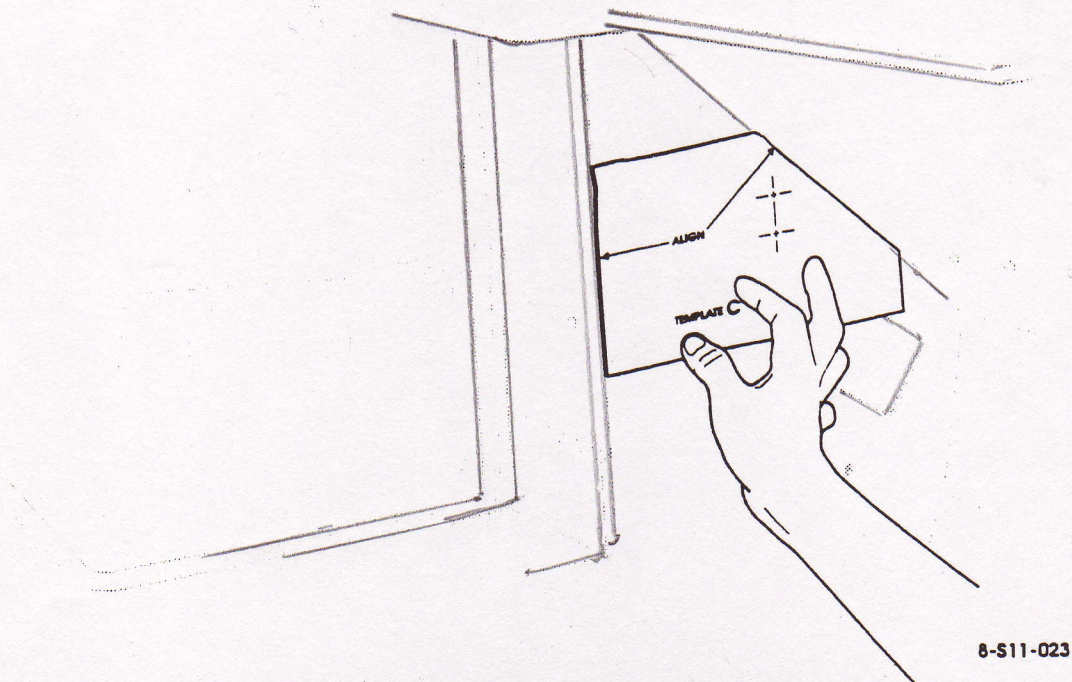
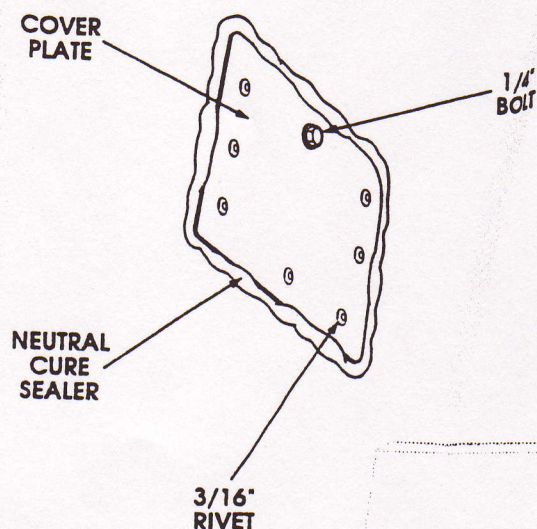


Figure 3: Water Valve Mount Bracket Template "C".

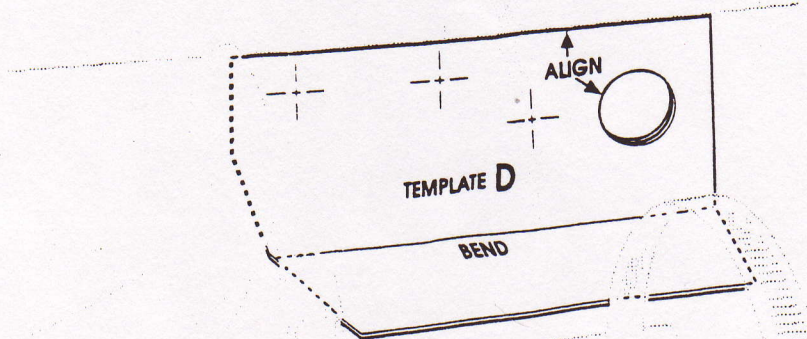
23. Install the 8"x 5" cover plate over the existing hole in the left side of the footwell (See Figure 4). Use neutral cure sealer between the plate and the body. Use a 1/4" nut and bolt in the plate and the existing HVAC mount hole in the body for a locator. When the nut and bolt are tightened, drill through the remaining holes in the plate into the body with a 3/16" drill bit and install 3/16" pop rivets in the holes.



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Figure 4: Installation Of The Cover Plate.

24. Position the blower resistor mount template "D" on the firewall in the area behind the surge tank, align with the existing 1" harness hole, mark and drill two 3/16" resistor bracket mount holes and an additional 1" harness hole (See Figure 5).
25. Remove insulation as necessary to prevent interference with the blower resistor and rivet the resistor mount bracket in the holes drilled in the fire wall indicated by template "D".



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Figure 5: Blower Resistor Mount Template "D".

26. Position the water valve bracket on the engine side of the footwell (if not already equipped) with the support tab at the bottom and rivet from the inside through the holes drilled using template "C".
27. Using neutral cure sealer, install three plastic plugs inside the footwell in the original upper HVAC mount holes and two in the left side of the footwell below the cover plate.

28. Position the upper HVAC mount bracket on the four previously drilled holes, indicated by template "A", with the stud angled downward and rivet in place (See Figure 6).

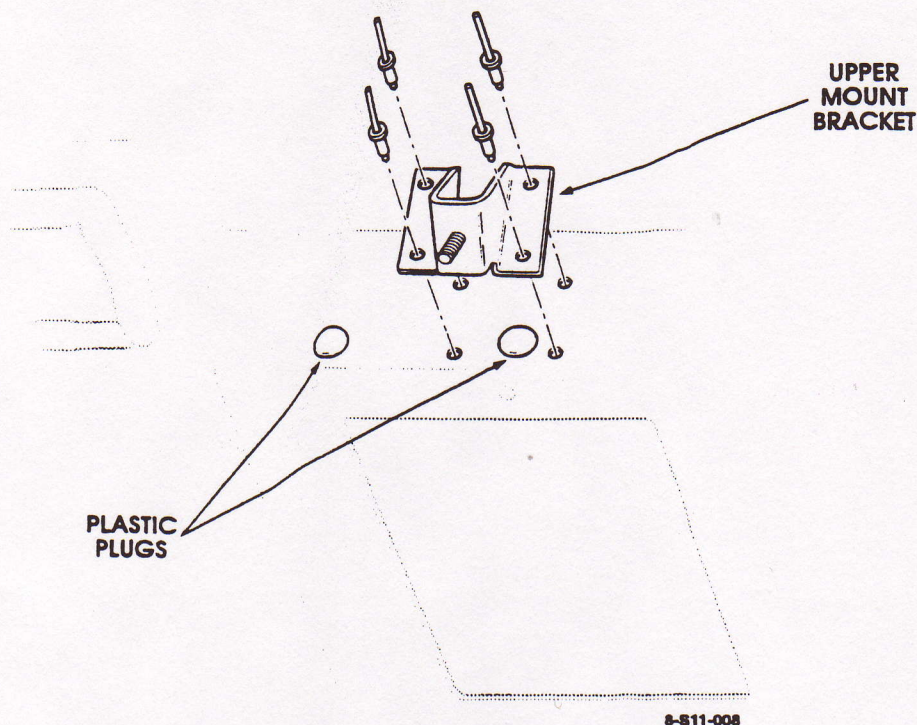


Figure 6: Upper Mount Bracket Position.

29. Position the intake elbow retainer saddle over the outside of the square intake hole under the rain cap with the long side facing forward and rivet from the inside (See Figure 7). The saddle prevents the intake elbow from obstructing HVAC intake air flow if the elbow should change position.

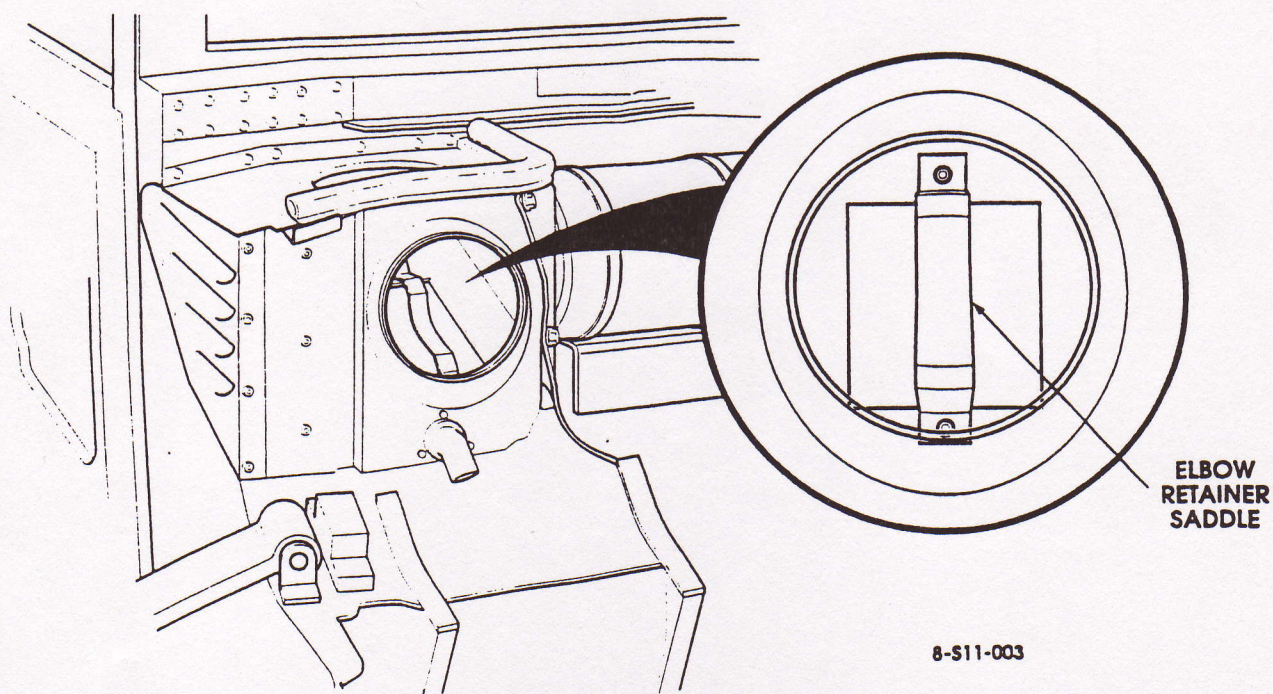


Figure 7: Intake Elbow Retainer Saddle.

30. Remove the P-clamp securing the main central vent system line to the right front engine splash shield. Measure 5" forward from the rear of the splash shield, mark, cut and remove the rear section of the splash shield. Using a tie strap, secure the vent line to prevent chafing and interference with the exhaust manifold.
31. Position the manifold flange template "E" alongside the inner air cleaner mount bracket and up against the body seam flange. Mark the cutout area and centerpunch the two center points of the 7/8" mount holes (See Figure 8).

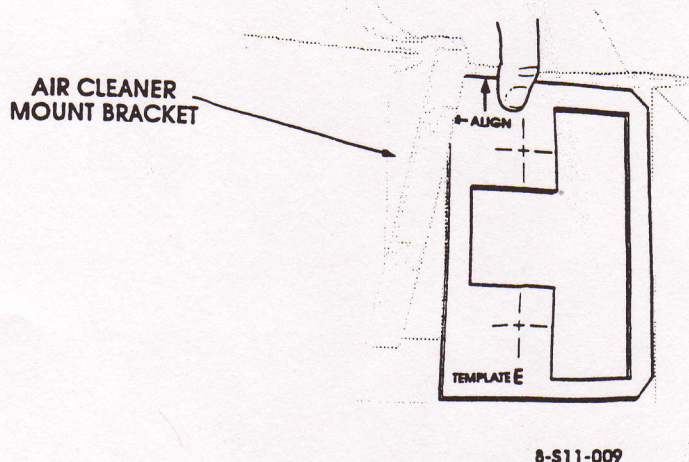


Figure 8: Manifold Flange Template "E".

32. Drill two 7/8" mount holes and six 1/8" holes at the cutout corners then cut the material out of the body for the manifold flange.
33. Position the lower HVAC mount bracket template "F" between the inner and outer air cleaner mount brackets and up against the body seam flange and centerpunch two points for the lower HVAC mount bracket (See Figure 9).

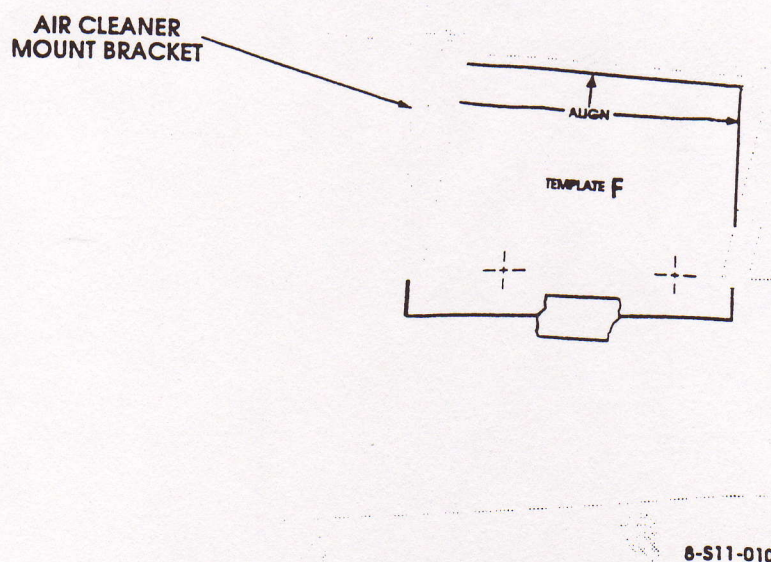


Figure 9: Lower Mount Bracket Template "F".

34. Drill two 3/16" holes for the lower HVAC mount bracket.

35. Measure 8" upward from the lower crease in the floor padding, mark, cut and remove the upper piece of floor padding (See Figure 10). Remove any other foam padding that may be present above the cut line.

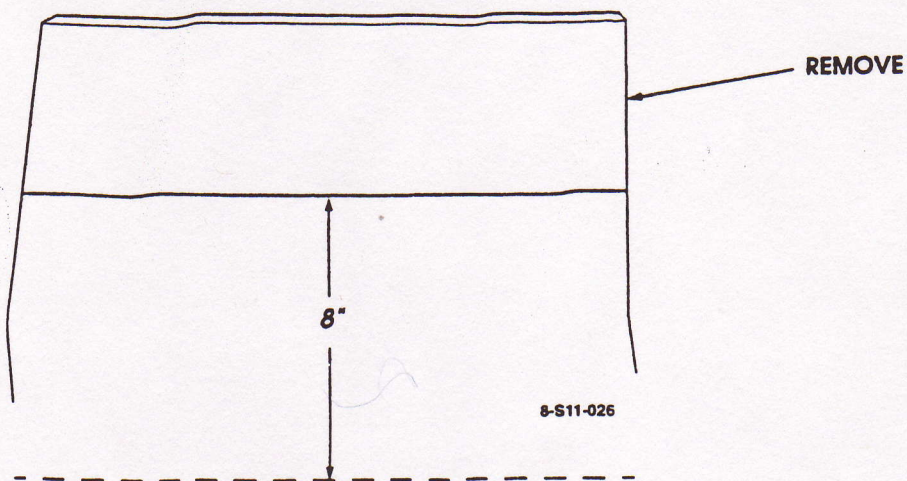
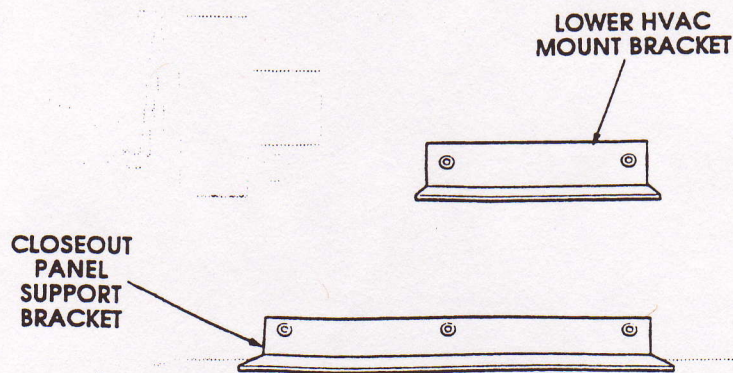


Figure 10: Trimming Of Floor Padding.

36. Position the closeout panel support bracket so that the larger lip is pointing rearward and 1/8" above the top of the newly trimmed floormat. Center the bracket side to side in the footwell, drill the 3/16" mounting holes and install rivets (See Figure 11). Position the lower HVAC mount bracket over the previously drilled holes and rivet in place.



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Figure 11: Closeout Panel And Lower HVAC Mount Brackets.

37. Trim the defrost duct straight across level with the bottom edge of the A-beam (See Figure 12). If the duct has a "V" shaped protrusion inside, the cut may intrude into the "V" shaped area leaving an opening to the outside of the duct. If the "V" is cut, install the cover provided with the kit using neutral cure sealer and trim screws. Remove the right side outer windshield retainer and drill out the second from the right windshield retainer nut insert (to be installed later) to allow movement of the defrost duct for alignment to the main unit during installation.

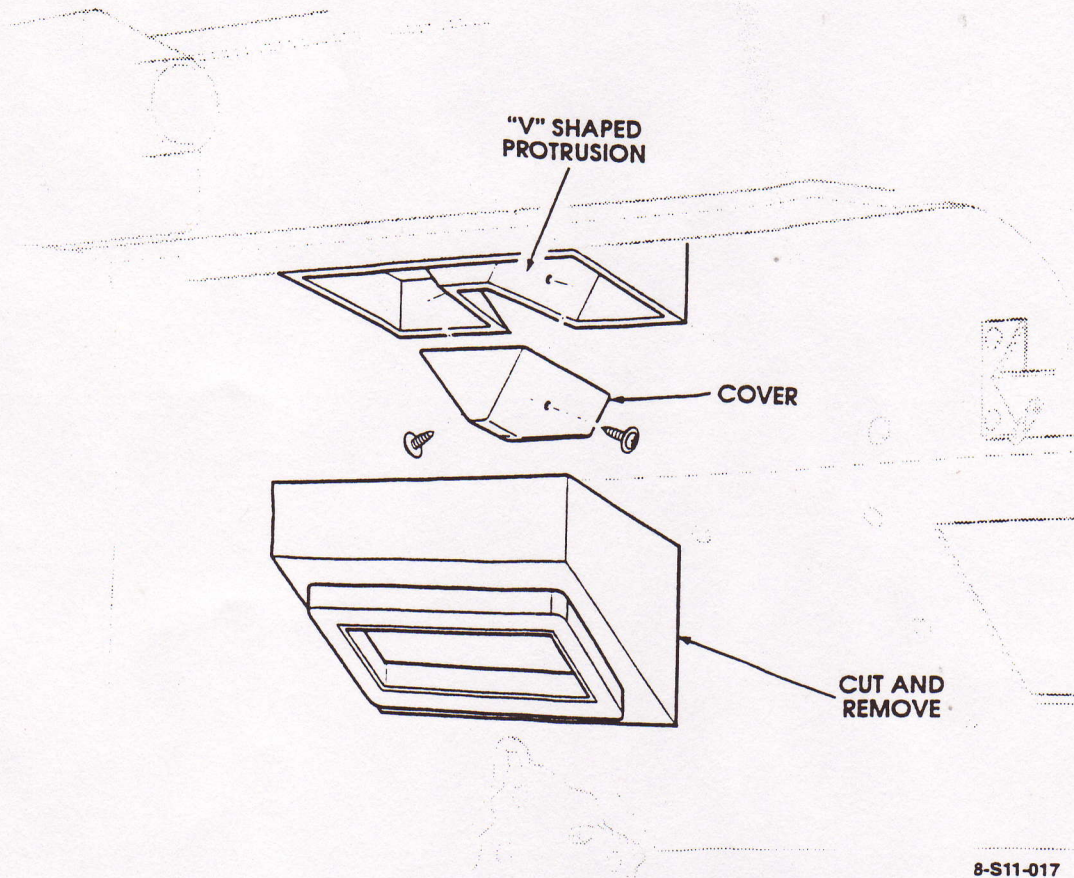
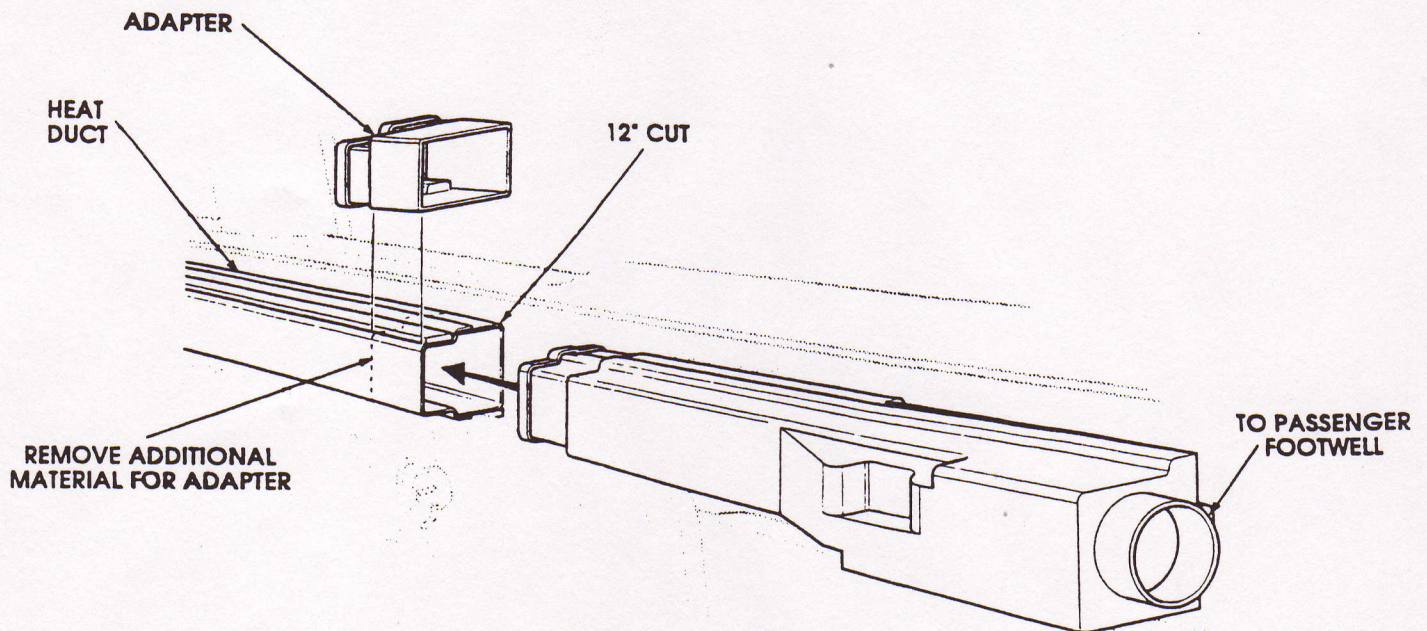


Figure 12: Defroster Duct Modification.

38. Install the new blower and vacuum harnesses in the two 1" holes above the surge tank. Install the white and black vacuum harness in the hole closest to the engine.
- Note:** Position the two harnesses coming through the firewall so they do not interfere with the mating of the main HVAC unit to the defrost and floor ducts. The harnesses should exit to the right behind the defrost duct and above the upper mount bracket.
39. Remove the transition from the new main HVAC unit.
40. Install neutral cure sealer on the gaskets around the sealing plate and the air intake hole and lift the new HVAC unit into the vehicle. Position the bottom of the unit on the newly installed lower support bracket and align the sealing plate mounting studs in the holes at the front of the footwell.
41. When the sealing plate mounting studs are in place, raise the rear of the unit upwards, align the defrost duct with the top of the unit and install the hardware on the left and upper mounts. When installing the left side mount hardware, make sure the 1/2" nylon spacer is installed between the mount and the body. Install two grommets, two large flatwashers and two keps nuts on the sealing plate studs and secure.

42. Install the drain hose through the grommet in the body, and install the 90° elbow to the end of the drain hose then attach and secure the drain hose to the main HVAC unit with a worm gear clamp.
43. Reinstall the right side console mount bracket with two rivets.
44. Reinstall the engine cover.
45. Measure inward 12" from the passenger side of the heat duct toward the center of the vehicle. Cut the duct at this point (See Figure 13). Some vehicles may require the use of the supplied adapter. Additional material must be cut from the duct when using the adapter. Connect the new duct to the remainder of the original duct and to the top of the main HVAC unit with trim screws. Attach the passenger footwell hose to the outlet on the heat duct with a trim screw.



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Figure 13: Footwell Heat Duct Installation.

46. Place the foam tape on the mating flange of the transition and install the transition on the main HVAC unit with six screws. The two long screws must be installed in the top edge of the transition. The shorter screws secure the remaining edges of the transition.
47. Connect the wire and vacuum harnesses to the main HVAC unit and install two relays from the original wire harness on the new harness. Secure the harnesses across the face of the HVAC unit and across the top of the engine cover with tie straps.
48. Disconnect the auxiliary unit jumper harness from the auxiliary unit blower connector, switch and the ground connection and discard the harness.
49. Connect the jumper harness to the body harness and the HVAC harness. Connect the pink lead to the vacuum pump wire in the vacuum harness

50. Connect the HVAC harness to the auxiliary unit blower connector, the switch and the ground connection. Reconnect the rear defog connection if equipped.
51. Install the right side inner and outer kick panels, the two screws in the right side of the auxiliary unit cover and the passenger seat. Install the upper closeout panel support bracket when installing the door strap hardware on the outer kick panel. Installation order is: domelight bracket, upper closeout panel bracket then the door strap bracket.
52. Remove and discard the HVAC control head.
53. Use template "G" to resize the opening to accommodate the control head included in the kit (See Figure 14). Align the control head cutout in template "G" with the existing cutout in the console on the top and left edges. Mark the larger cutout dimension and the two bezel mount holes onto the console. Drill two 1/4" bezel mount holes and enlarge the control head cutout.

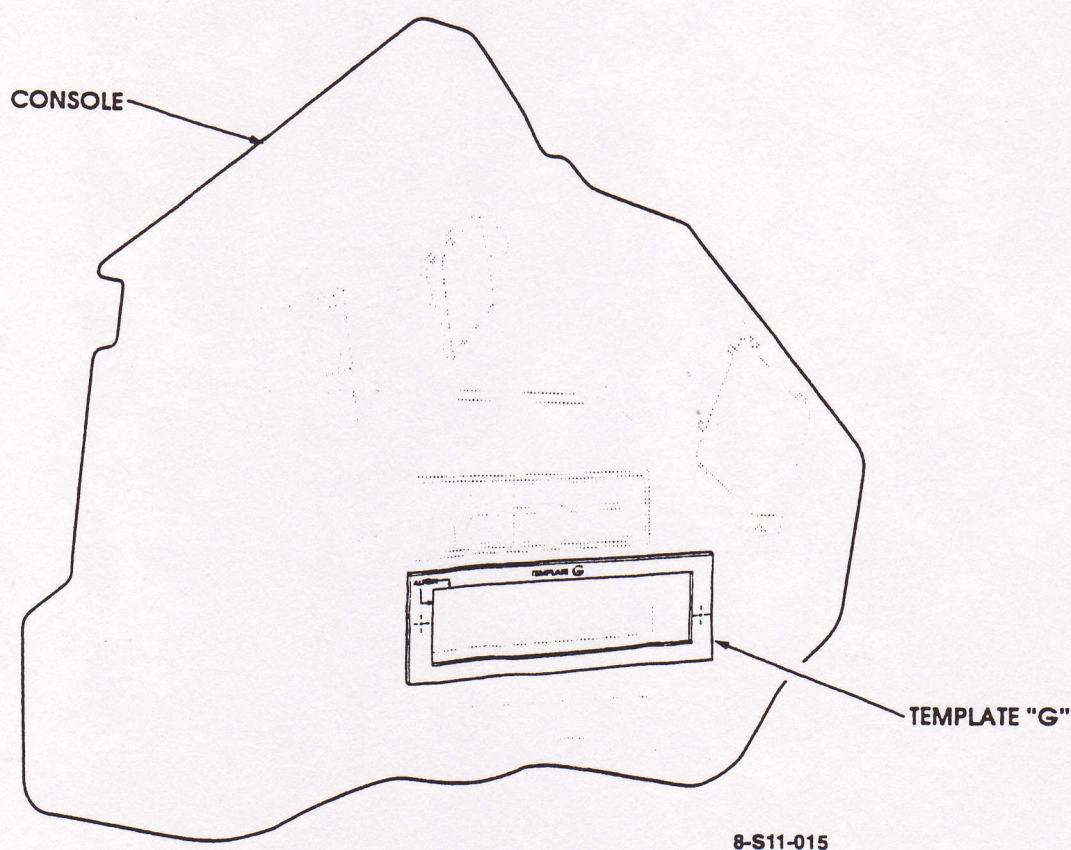


Figure 14: Control Head Cutout.

54. Install the new bezel with two nuts and install the control head from the backside of the console using the bracket and two additional nuts.
55. Connect the HVAC electrical and vacuum harnesses to the control head and install the console.

56. Slip the lower clips of the closeout panel onto the lower "L" bracket (See Figure 15). Raise the top until it contacts the upper support bracket. Drill through the panel and the support bracket and secure with a trim screw.

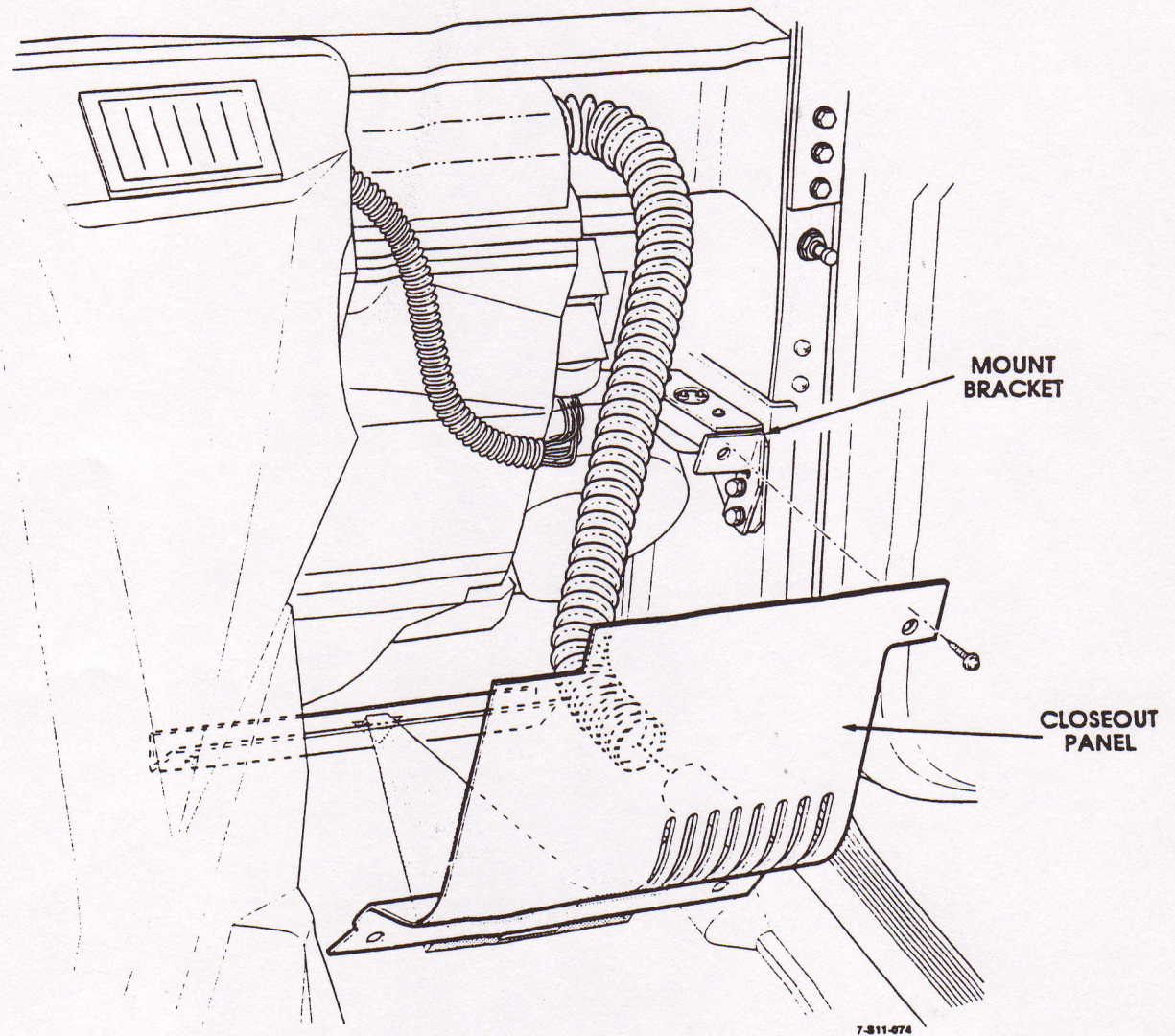
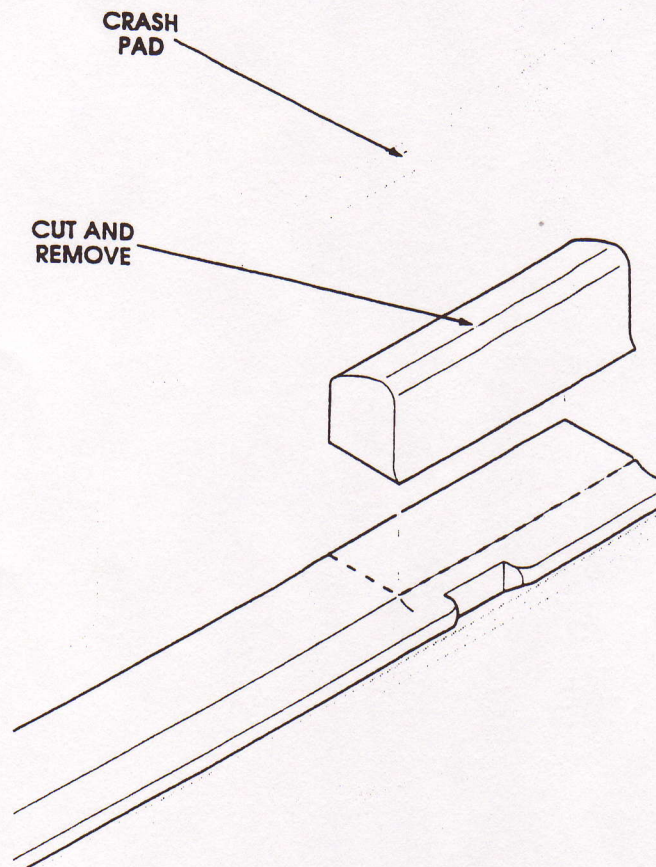


Figure 15: Right Side Closeout Panel.

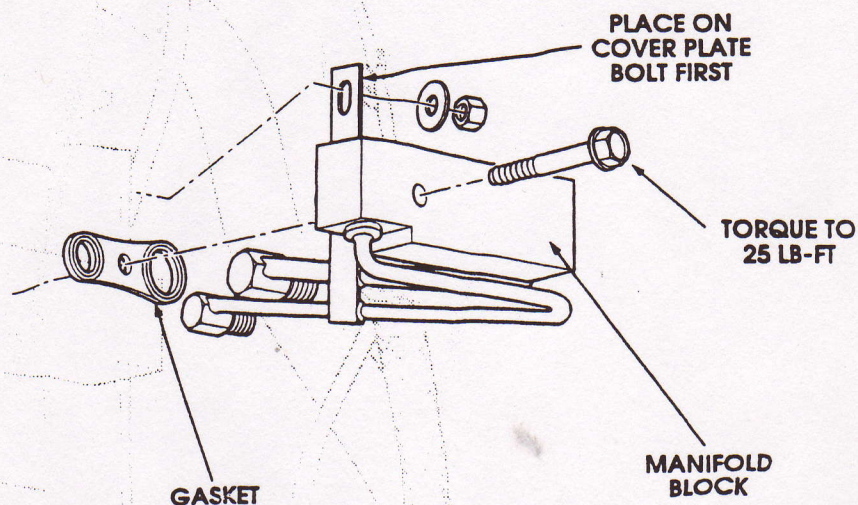
57. Trim the protruding support foam from the right end on the inside of the crash pad flush with the remaining support foam to accommodate the new duct and install the crashpad (See Figure 16).



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Figure 16: Crashpad Foam Removal.

58. Install the gasket and the manifold block to the main HVAC unit and cover plate bolt by sliding the manifold bracket onto the cover plate bolt then align the ports on the sealing plate (See Figure 17). Install the mount bolt through the manifold into the expansion valve block and torque to 25 lb-ft. Install the nut and washer on the cover plate bolt.



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Figure 17: Manifold Block Installation.

59. Route the original suction hose from the HVAC unit between the inlet hose of the receiver drier and the drier, then over the top of the fan shroud extension to the compressor. Using the original P-clip, secure the hose in the hole in the shroud extension (See Figure 18).

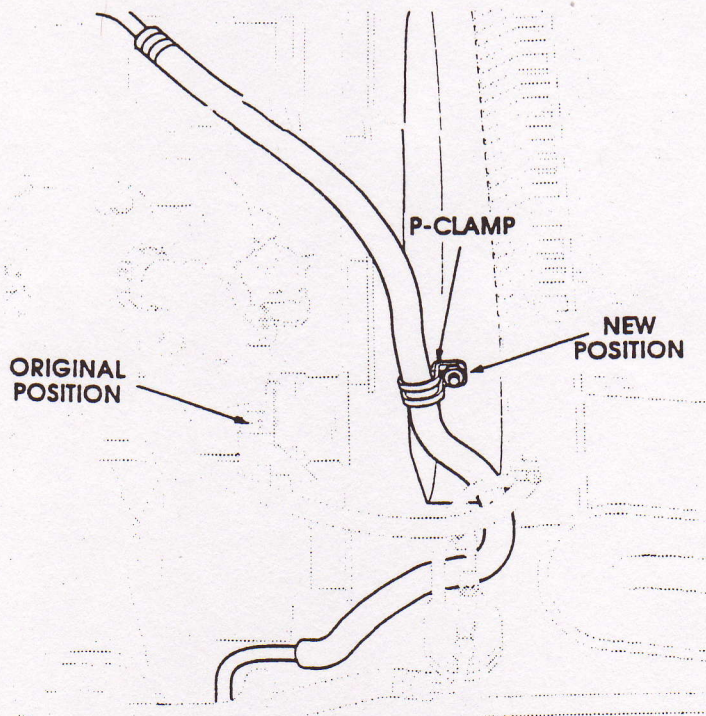


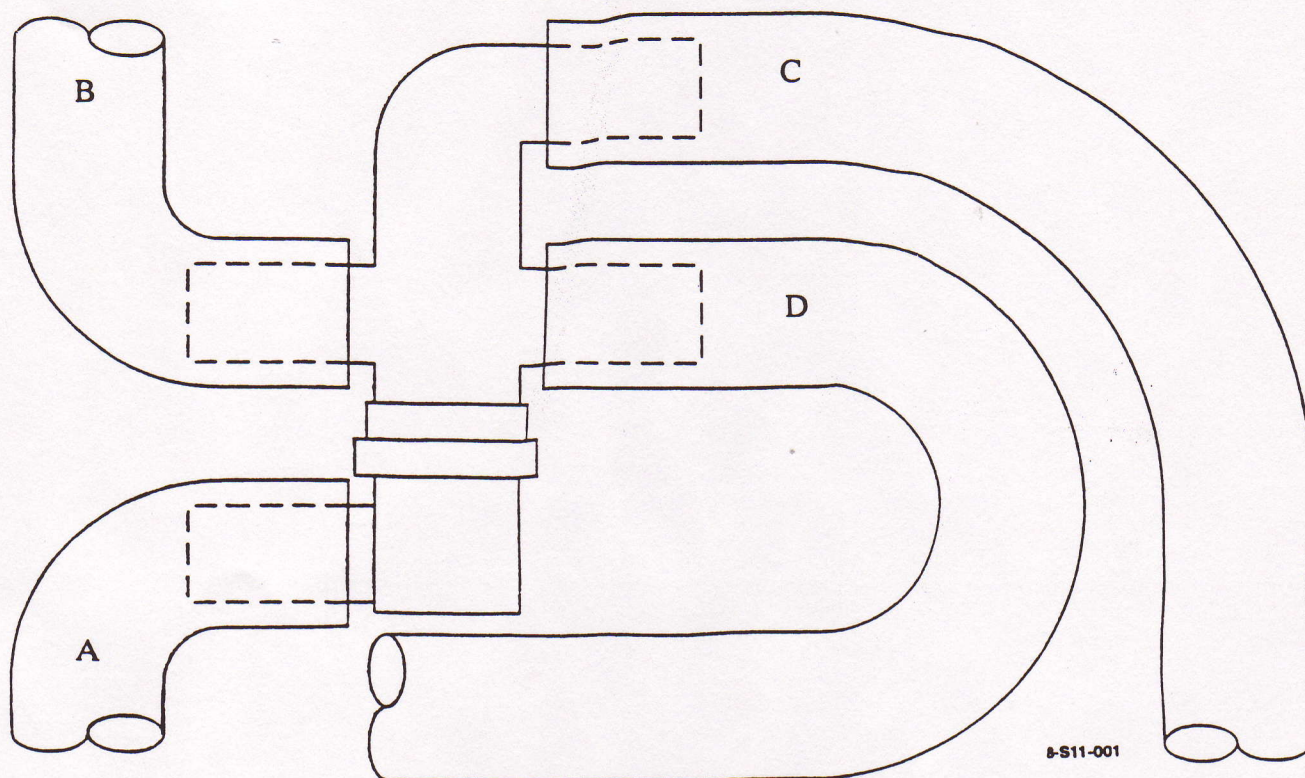
Figure 18: Suction Hose Routing.

60. Attach the high and low pressure hoses to the manifold block connections using new o-rings and the following torque values.

Pressure Hose Torque Values				
Hose Size	Torque (Lb-Ft)		Torque (Newton Meters)	
	Minimum	Maximum	Minimum	Maximum
#6 High Pressure Hose	11	13	15	17
#8 High Pressure Hose	15	20	20	27
#10 Low Pressure Hose	21	27	28	36
#12 Low Pressure Hose	24	28	33	38

61. Using new o-rings, replace the receiver drier and install the original low pressure cutout switch in the new drier.
62. The main HVAC unit is shipped dry and requires you to add three ounces of PAG oil to the system.
63. Evacuate the system for 45 minutes plus a 10 min vacuum hold time for leak check purposes.
64. Mount the water valve to the water valve mount bracket with a worm gear clamp and attach the white vacuum hose.
65. Attach the gaskets and heat tubes to the sealing plate using four supplied bolts and torque to 32 lb-in.

66. Cut the hose from the water pump to length to attach to the splice on the hose at outlet "B" on the water valve (See Figure 19).

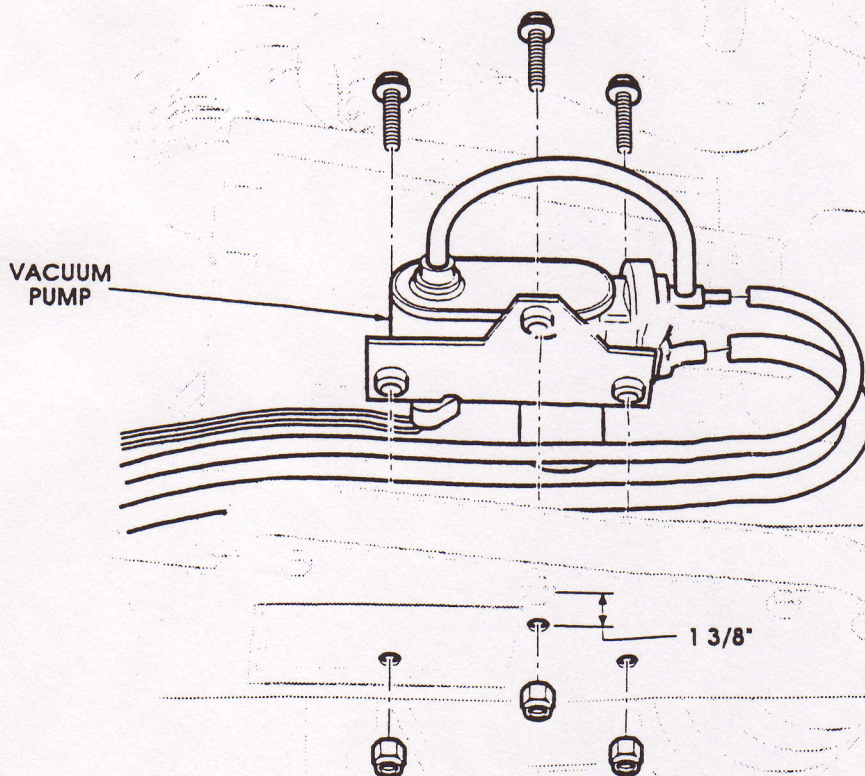


- A-To hose barb on thermostat housing.
 B-To water pump.
 C-To auxiliary heat hose.
 D-To upper heat tube on main unit.

Figure 19: Water Valve Installation.

67. Locate the auxiliary hose with the short 90° elbow, remove the splice and the 90° elbow and attach the hose to the lower heat tube.
68. Cut the hose connected to outlet "C" of the water valve to length and attach to the splice on the remaining auxiliary hose.
69. Cut the hose from outlet "A" on the water valve to length and attach to the hose barb on the thermostat housing.
70. Attach the hose from outlet "D" of the water valve to the upper water tube of the main HVAC unit.
71. Attach the high blower fuse holder (red wire) to the firewall inboard of the surge tank in the position previously occupied by the original high blower fuse holder
72. Attach the high blower power lead to the "B+" lug on the rear of the alternator.
73. Attach the black ground lead for the high blower and the vacuum pump ground wire to a suitable engine ground.
74. Position the resistor block with the three terminal connector at the top and secure to the blower resistor bracket. Make electrical connections on the resistor and reinstall the surge tank.

75. Install the flat rubber tubing (duckbill) on the air intake box drain. Secure with a tie strap.
76. Install the air cleaner, air intake elbow and induction hose.
77. Install the rain cap and adapter using the foam gasket supplied.
78. Mount the vacuum pump on the inboard side of the battery splash shield 1 3/8" down from the top seal mount bolts and align the top pump mount bolt under the second from the rear seal mount bolt (See Figure 20). Connect the black vacuum hose to the smaller diameter hose barb and the power and ground electrical connector to the vacuum pump. Install the supplied vacuum hose to the remaining vacuum pump hose barb and connect the other end to the supplied "T" and install the "T" in the central vent system hose 11" from the air cleaner.



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Figure 20: Vacuum Pump Mounting.

79. The supplied stone shield must be cut to specifications as shown (See Figure 21).

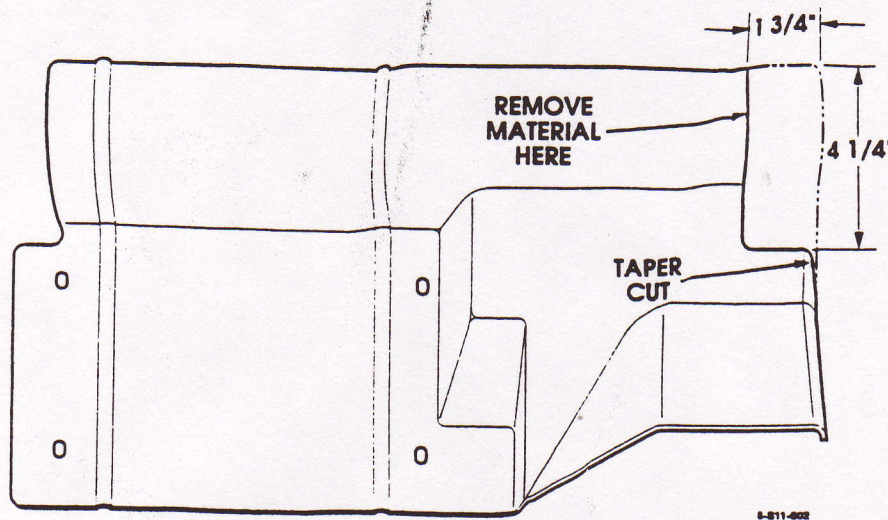


Figure 21: Stone Shield Modification.

80. Install the edge guard on the stone shield and install the stone shield.
81. Use a 19/64" drill bit, drill through the A-beam at the second from the right windshield retainer bracket bolt location and into the defrost duct and install a new 10-24 nut insert for the windshield retainer bracket. Install the windshield retainer bracket.

Caution: Route all hoses and wires to avoid chafing on other objects.

82. Reinstall the right front wheel.
83. Fill the coolant system.
84. Replace the fuse in position "6 C" with a 30 amp fuse.
85. Connect the batteries.
86. Charge the system with 3 lbs. 2 oz. of R-134a refrigerant.
87. For vehicles equipped with a Heavy Duty Cooling Kit PN 05744670 or PN 05744668 (bulletin 96-11-02 Ref. 67) the charge amount is 2 lbs. 6 oz. R 134a.
88. Run the vehicle, check for leaks, bleed the coolant system and check HVAC functions and performance.
89. Install the HVAC information decal on the air cleaner housing.